

FIG. 1

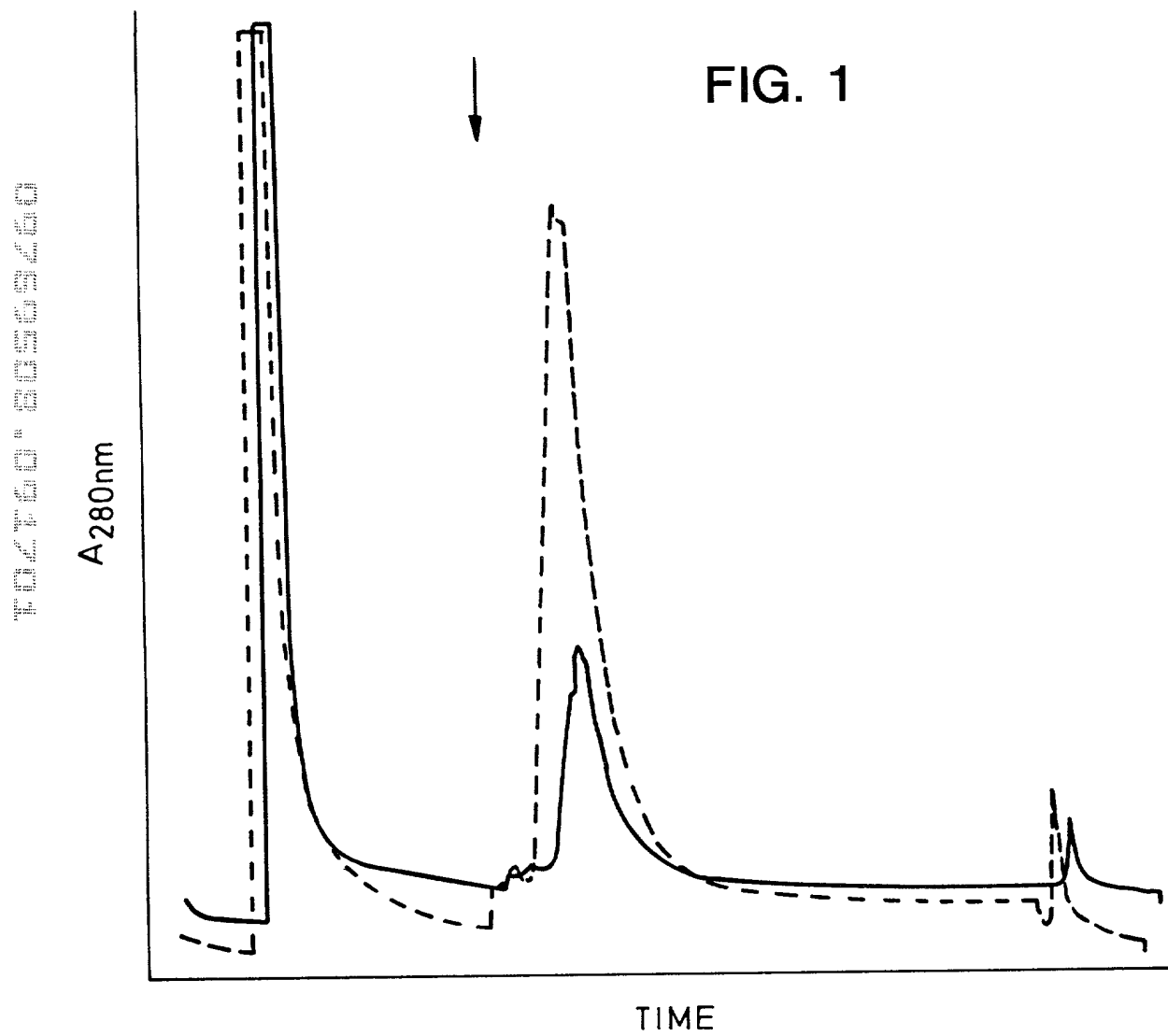


FIG. 2A

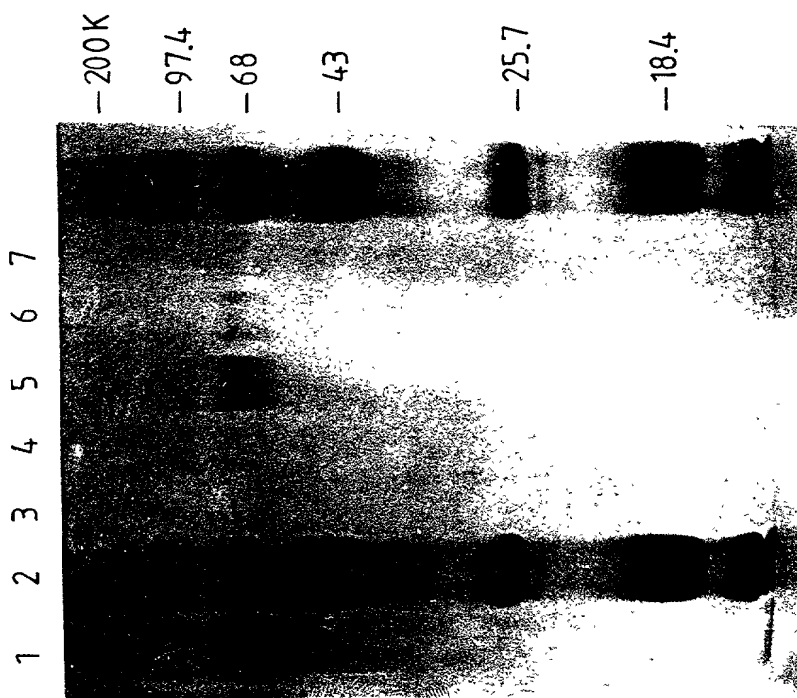


FIG. 2B

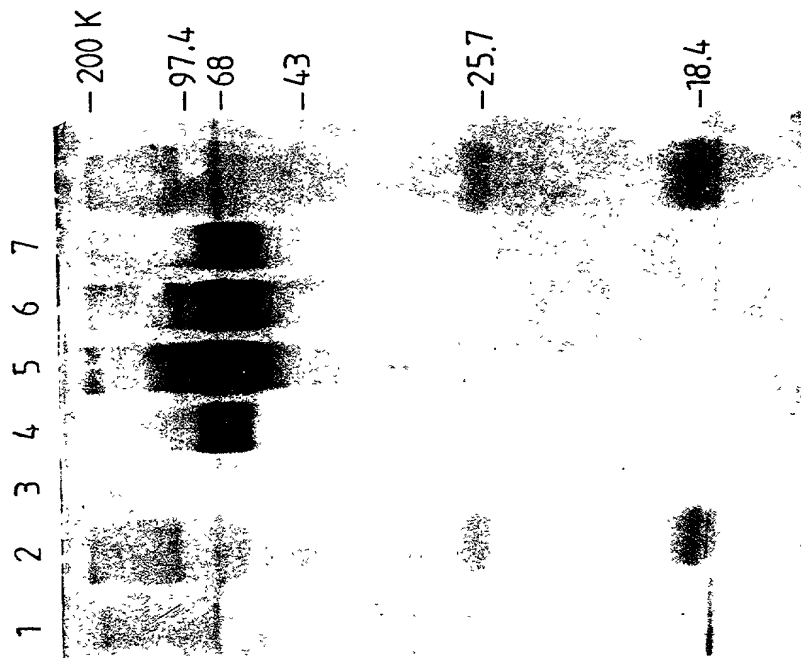


FIG. 3

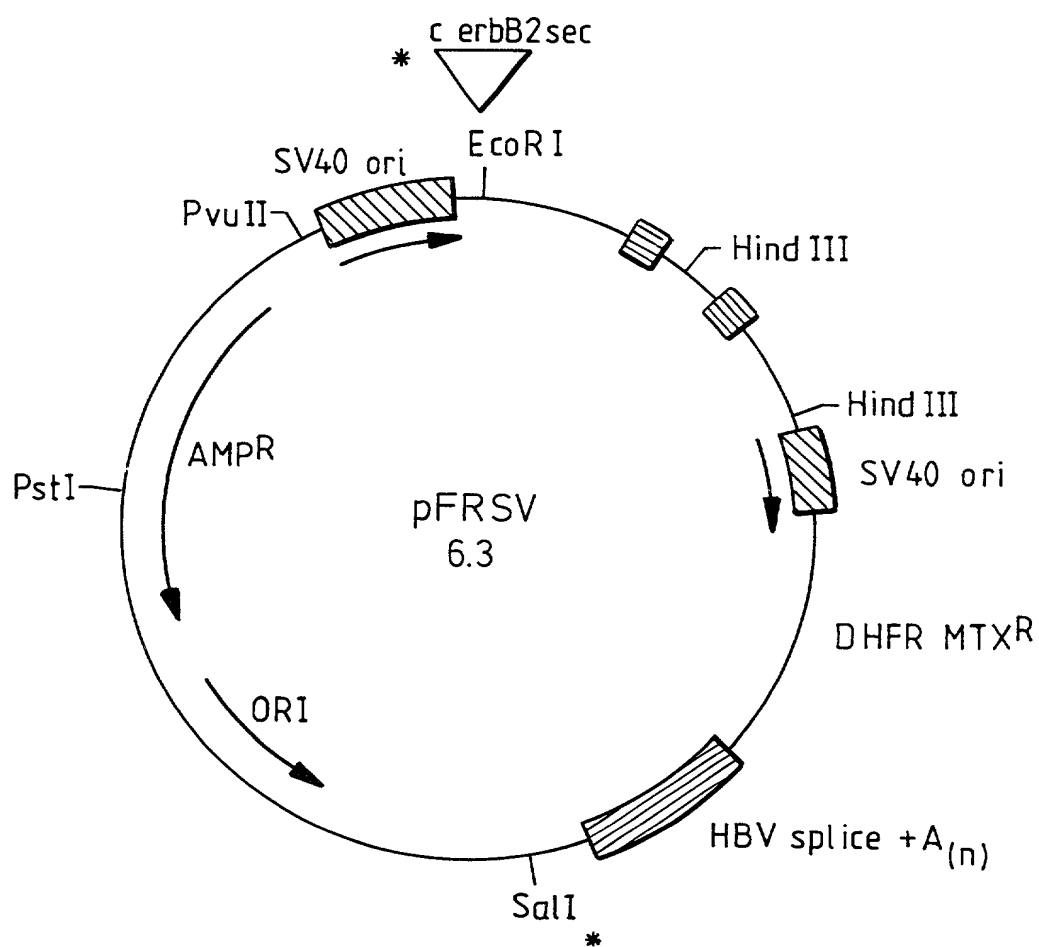
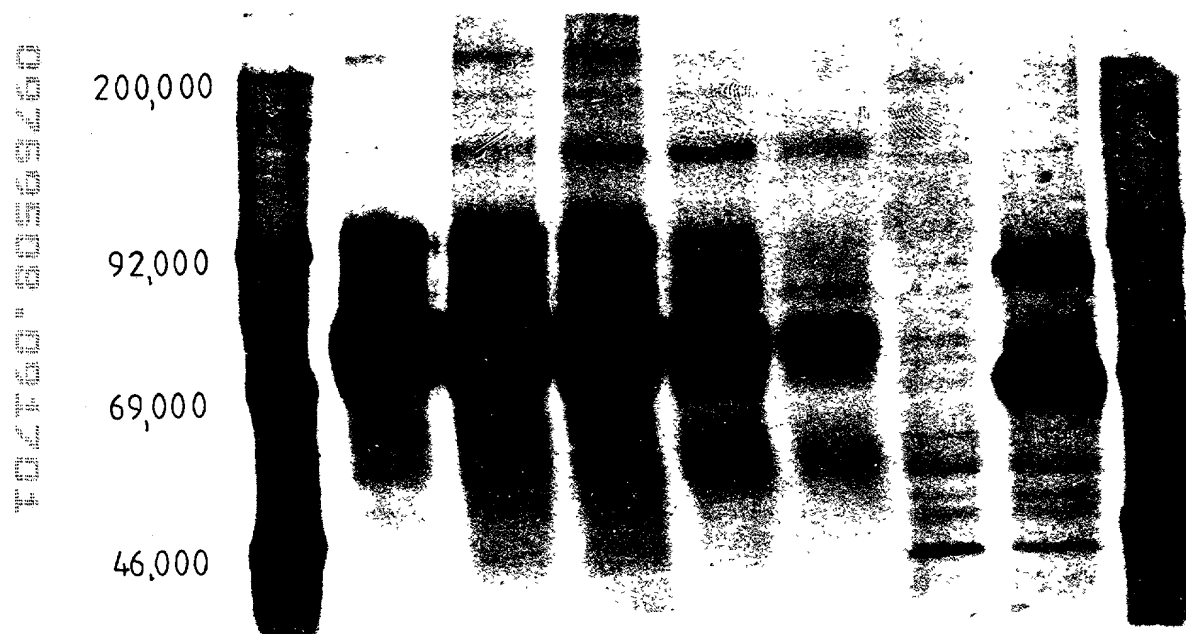


FIG. 4



NIH3T3-c-erbB-2 lysate + S35 labeled c1.4-3 supernatant

FIG. 5

Radioimmunoprecipitation of gp75 from SKBR3 Supernatant

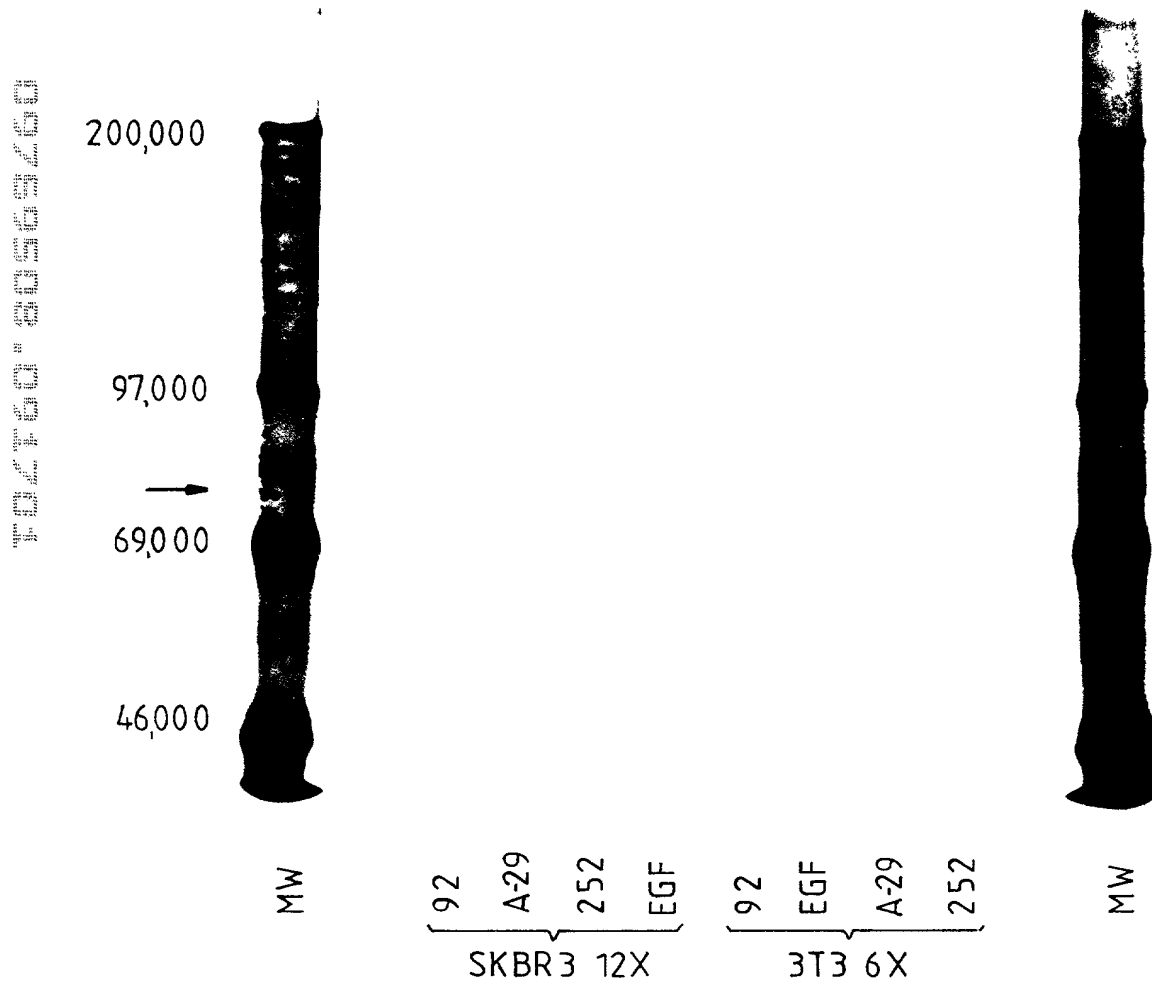


FIG. 6

Radioimmunoprecipitation of Supernatants From Various Cell Lines

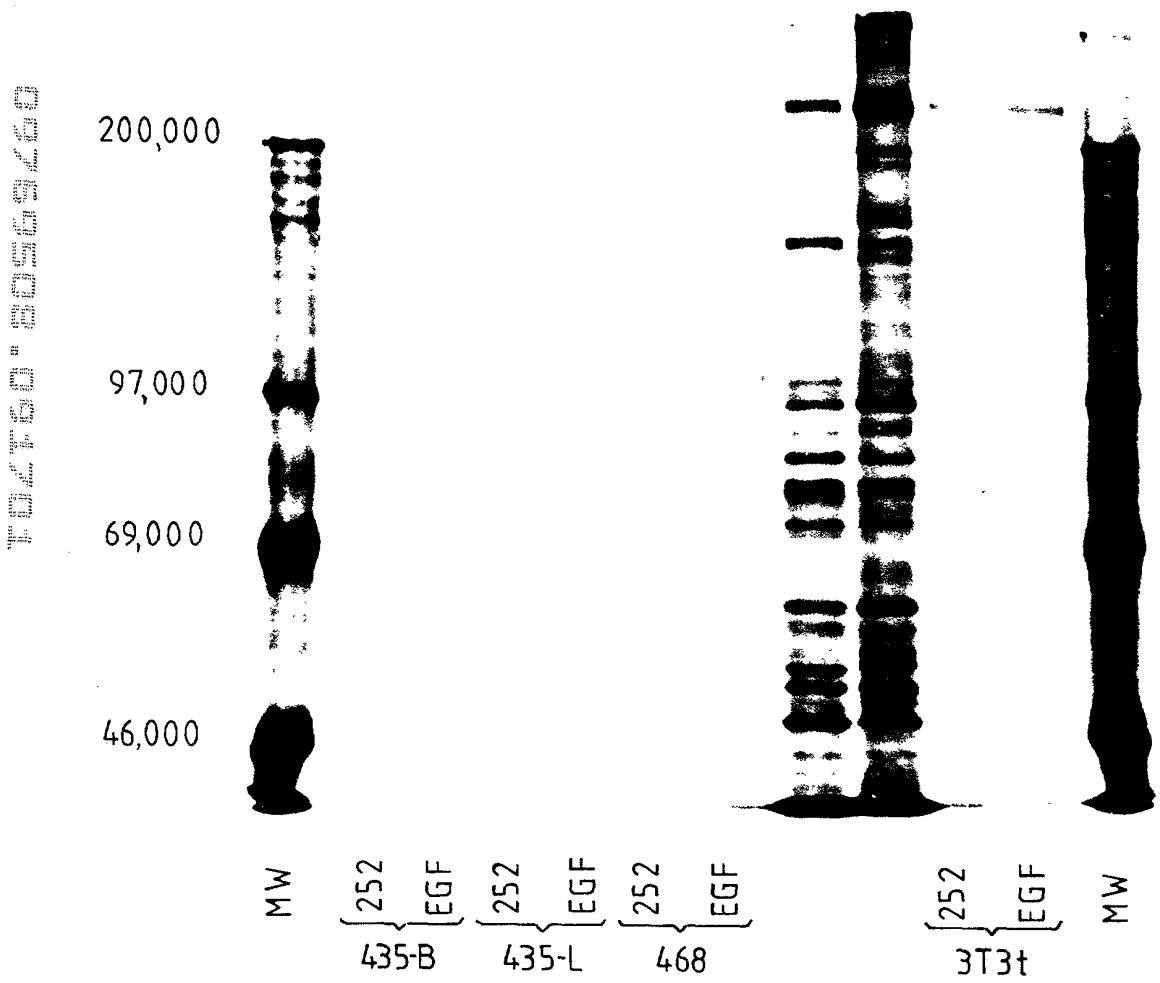


FIG. 7

Comparison of Standards in Sandwich IRMA

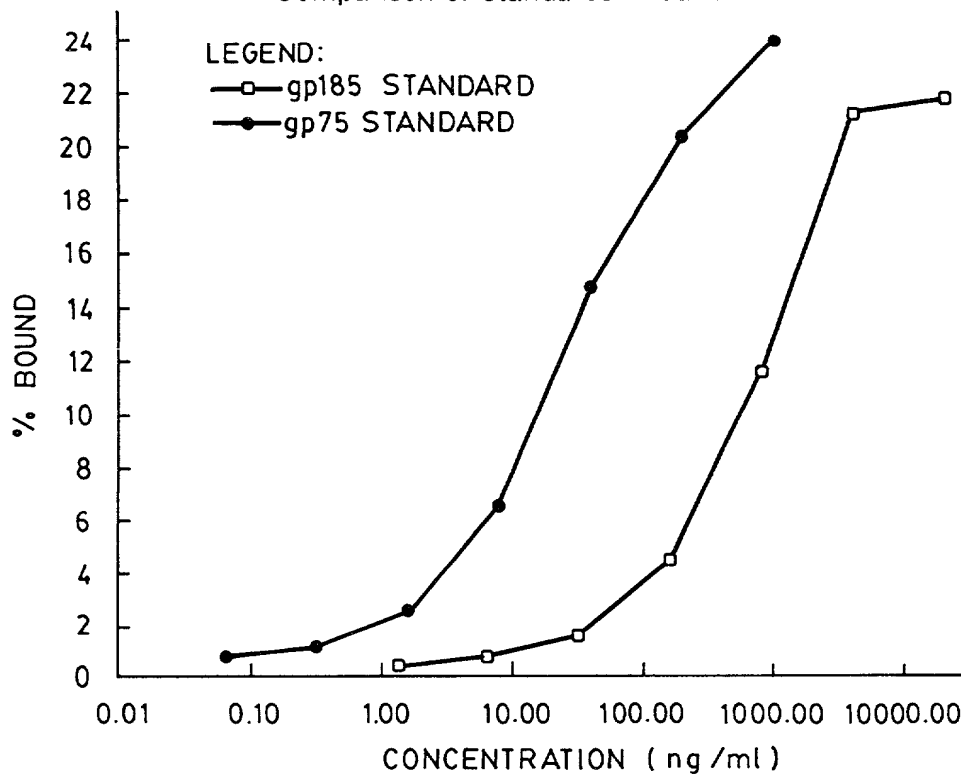


FIG. 8

Analysis of Nude Mouse Sera In c-erbB-2 IRMA

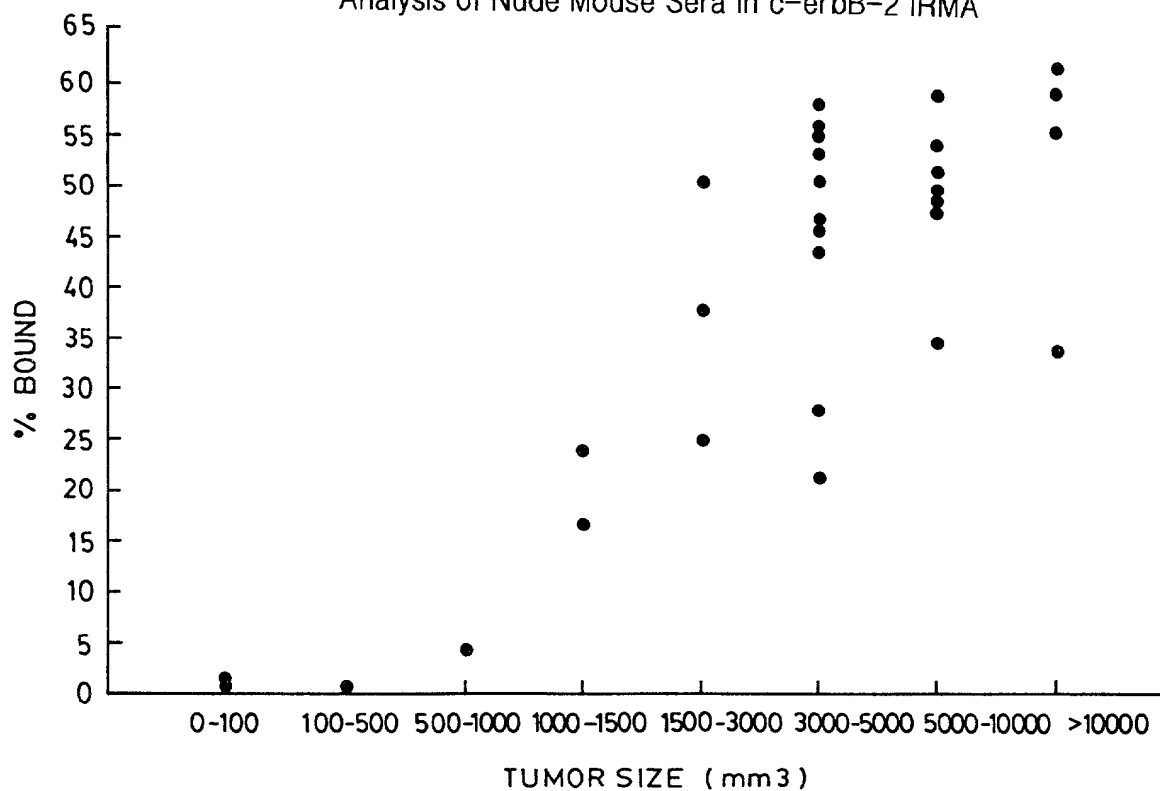


FIG. 9

FIG. 9

Analysis of Nude Mouse Sera in the c-erbB-2 IRMA
Treated vs. Untreated

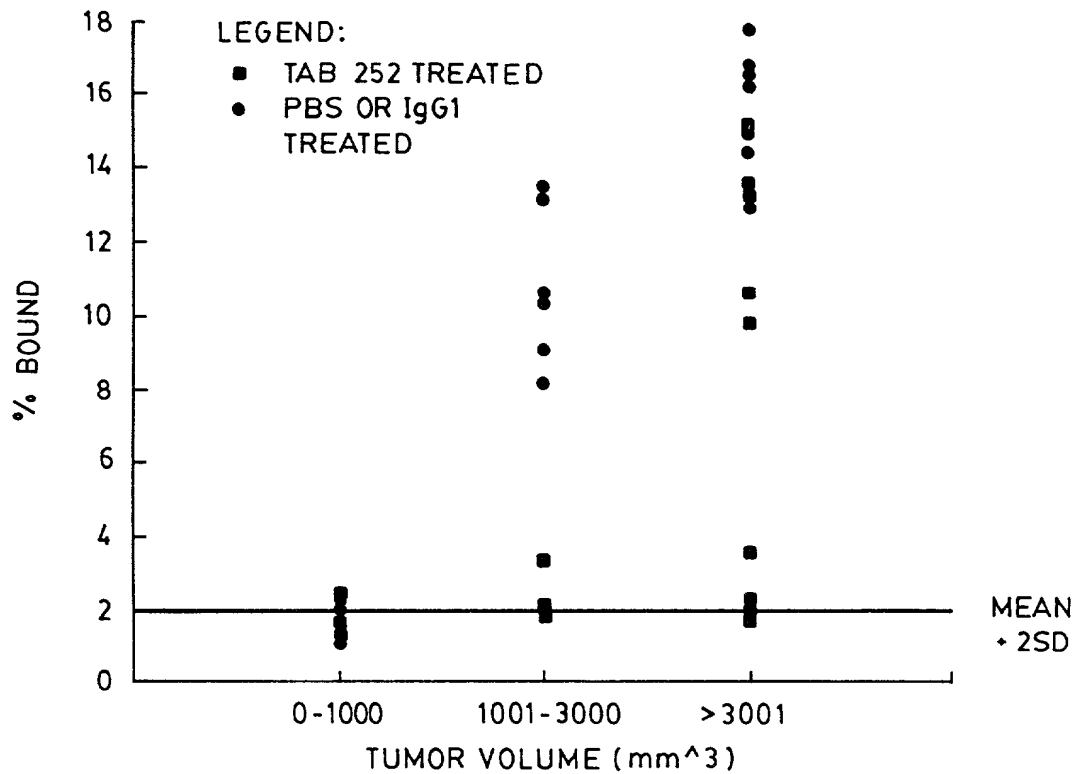


FIG. 10

Analysis of Normal Human Sera in the c-erbB-2 IRMA

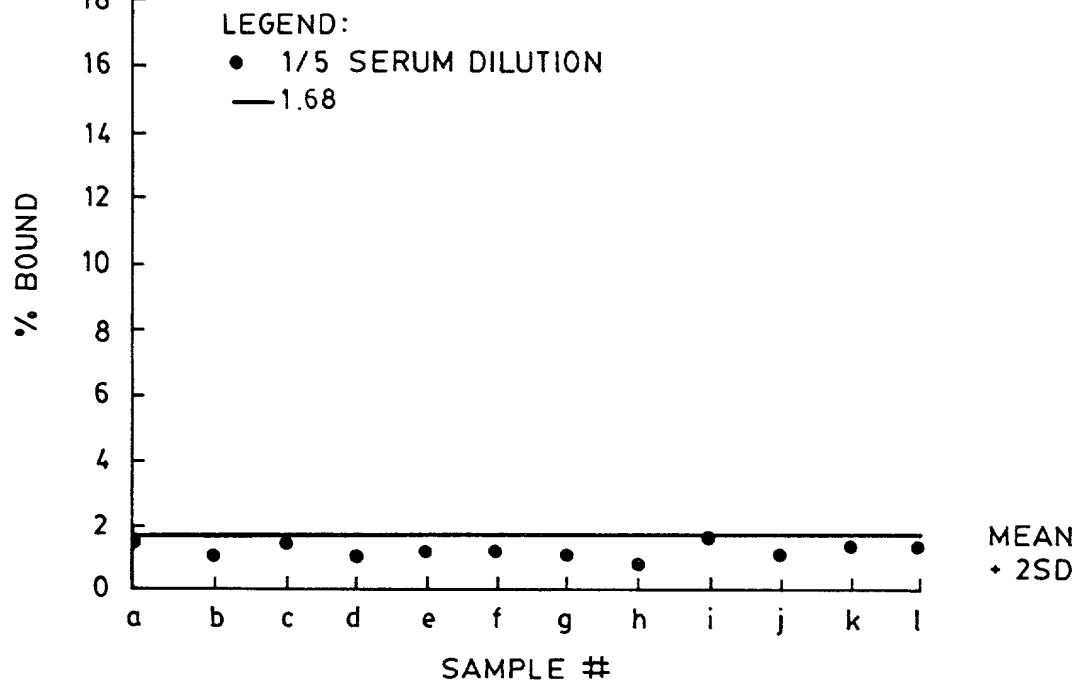


FIG. 11

Analysis of 20 Sera from Human Breast Cancer Patients
Serial Samples Assayed in the Sandwich IRMA

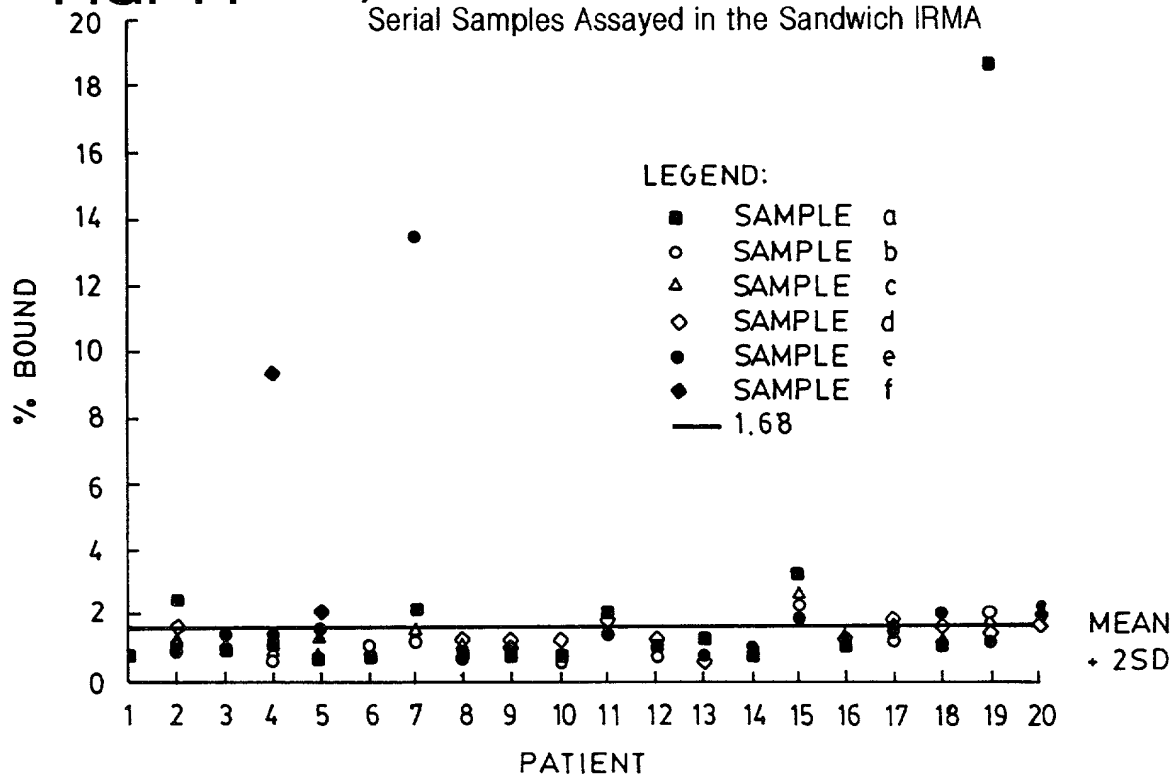


FIG. 12

Sandwich IRMA: Human Breast Sera and Control Sera

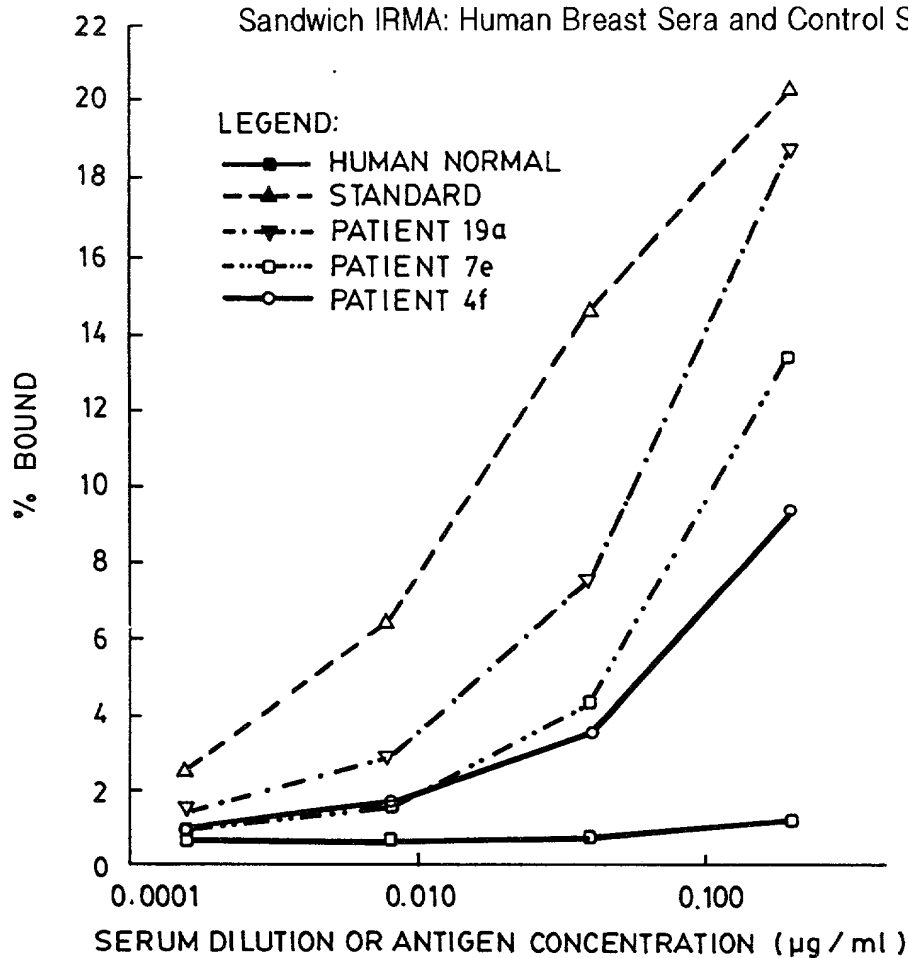


FIG. 13

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate

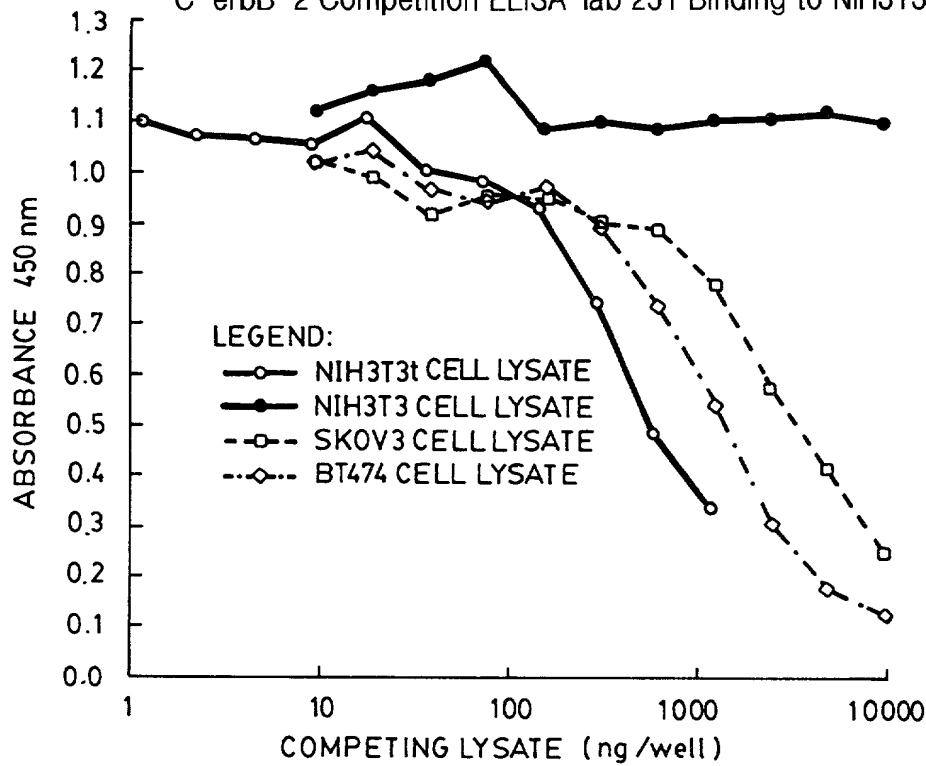
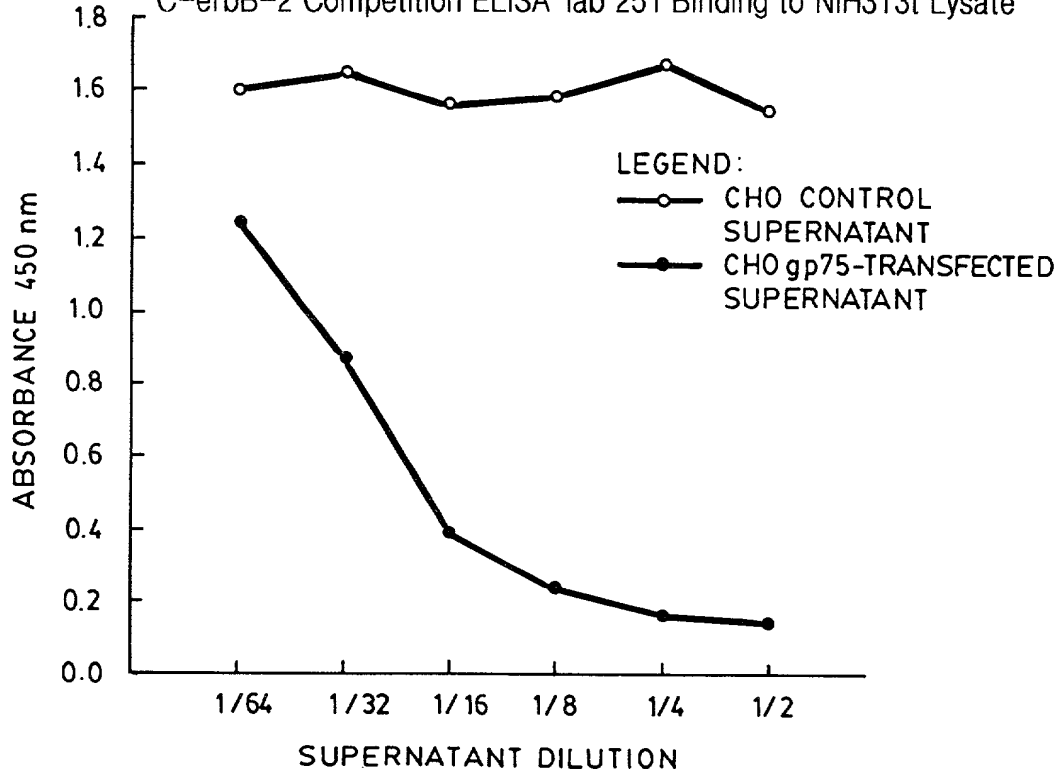


FIG. 14

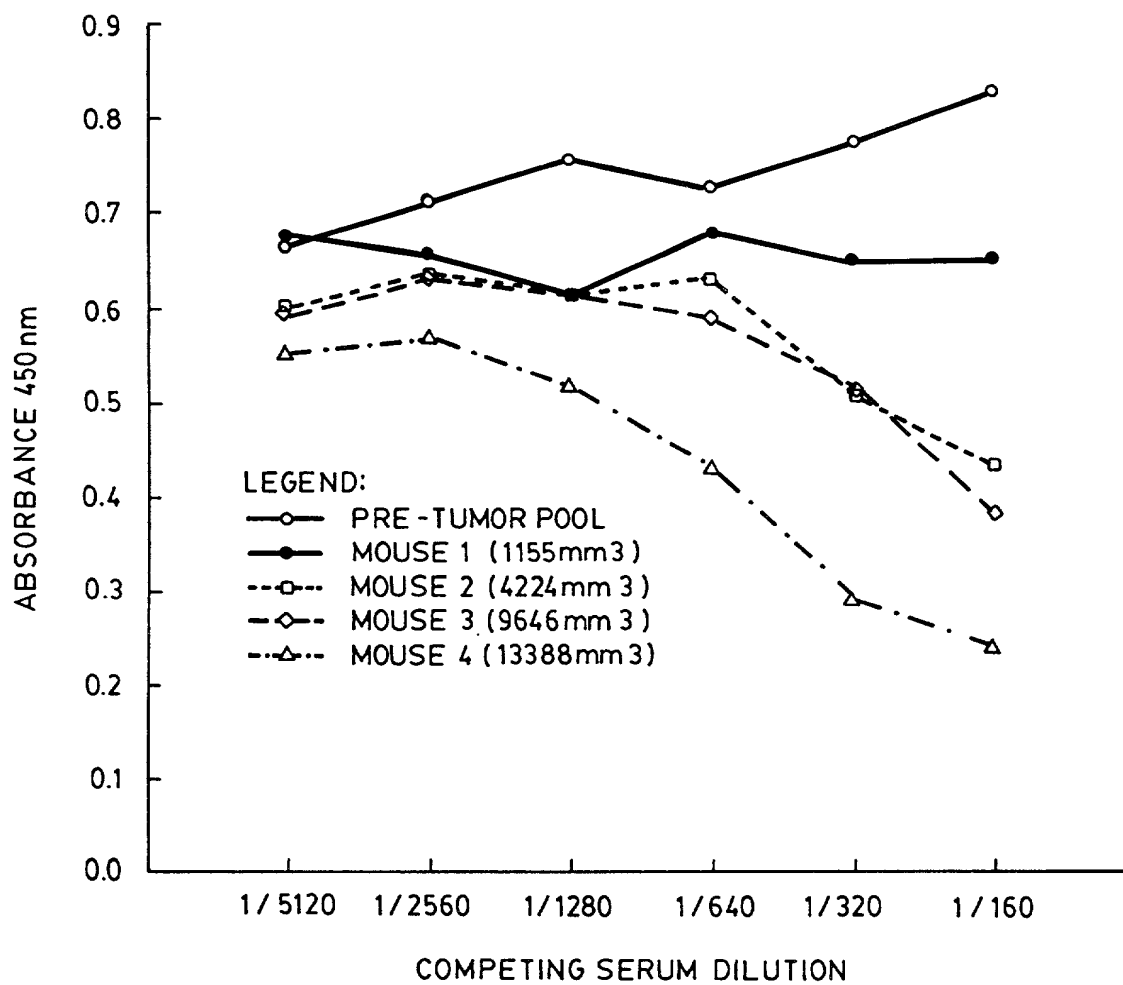
C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate



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FIG. 15

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate



1 AATTCTCGAGCTCGTCGACCGGTGACGAGCTCGAGGGTCGACGAGC
1 10
MetGluLeuAlaAlaLeuCysArgTrpGlyLeuLeuLeuAlaLeuLe
151 ATGGAGCTGGCGGCCTTSTGCGCTGGGGGCTCCTCCTCGCCCTCTT
60
GlnGlyCysGlnValValGlnGlyAsnLeuGluLeuThrTyrLeuPr
301 CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACCTCACCTACCTGCC
110
IleValArgGlyThrGlnLeuPheGluAspAsnTyrAlaLeuAlaVa
451 ATTGTGCGAGGCACCCAGCTCTTTGAGGACAACCTATGCCCTGGCCGT
160
GlyGlyValLeuIleGlnArgAsnProGlnLeuCysTyrGlnAspTh
601 GGAGGGGTCTTGATCCAGCGGAACCCCCAGCTCTGCTACCAGGACAC
210
GlySerArgCysTrpGlyGluSerSerGluAspCysGlnSerLeuTh
751 GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATTGTCAGAGCCTGAC
260
AspCysLeuAlaCysLeuHisPheAsnHisSerGlyIleCysGluLe
901 GACTGCTGGCCTGCTCCACTTCAACCACAGTGGCATCTGTGAGCT
310
TyrAsnTyrLeuSerThrAspValGlySerCysThrLeuValCysPr
1051 TACAACTACCTTTCTACGGACGTGGGATCCTGCACCCTCGTCTGCC
360
ArgGluValARgAlaValThrSerAlaAsnIleGlnGluPheAlaGl
1201 CGAGAGGTGAGGGCAGTTACCACTGCCAATATCCAGGAGTTTGCTGG
410
GluThrLeuGluGluIleThrGlyTyrLeuTyrIleSerAlaTrpPr
1351 GAGACTCTGGAAGAGATCACAGGTACCTATACATCTCAGCATGGCC
460
SerTrpLeuGlyLeuArgSerLeuArgGluLeuGlySerGlyLeuAl
1501 AGCTGGCTGGGGCTGCGCTCACTGAGGGAACCTGGGCAGTGGACTGGC
510
GluAspGluCysValGlyGluGlyLeuAlaCysHisGlnLeuCysAl
1651 GAGGACGAGTGTGTGGGCGAGGGCCTGGCCTGCCACCAGCTGTGCGC
560
ProArgGluTyrValAsnAlaArgHisCysLeuProCysHisProGl
1801 CCCAGGGAGTATGTGAATGCCAGGCACTGTTTGCCGTGCCACCCTGA
610
ProSerGlyValLysProAspLeuSerTyrMetProIleTrpLysPh
1951 CCCAGCGGTGTGAAACCTGACCTCTCCTACATGCCCATCTGGAAGTT

FIG. 16A

TCGAGGGCGCGCGCCCGGCCCCACCCCTCGCAGCACCCCGCGCCCCCGC

20 30
uProProGlyAlaAlaSerThrGlnValCysThrGlyThrAspMetLysLe
GCCCCCGGAGCCGCGAGCACCCAAGTGTGCACCGGCACAGACATGAAGCT

70 80
oThrAsnAlaSerLeuSerPheLeuGlnAspIleGlnGluValGlnGlyTy
CACCAATGCCAGCCTGTCCTTCCTGCAGGATATCCAGGAGGTGCAGGGCTA

120 130
lLeuAspAsnGlyAspProLeuAsnAsnThrThrProValThrGlyAlaSe
GCTAGACAATGGAGACCCGCTGAACAATACCACCCCTGTCACAGGGGCCTC

170 180
rIleLeuTrpLysAspIlePheHisLysAsnAsnGlnLeuAlaLeuThrLe
GATTTTGTGGAAGGACATCTTCACAAGAACAACCAGCTGGCTCTCACACT

220 230
rArgThrValCysAlaGlyGlyCysAlaArgCysLysGlyProLeuProTh
GCGCACTGTCTGTGCCGGTGGCTGTGCCCGCTGCAAGGGGCCACTGCCAC

270 280
uHisCysProAlaLeuValThrTyrAsnThrAspThrPheGluSerMetPr
GCACTGCCAGCCCTGGTCACCTACAACACAGACACGTTTGAGTCCATGCC

320 330
oLeuHisAsnGlnGluValThrAlaGluAspGlyThrGlnArgCysGluLy
CCTGCACAACCAAGAGGTGACAGCAGAGGATGGAACACAGCGGTGTGAGAA

370 380
yCysLysLysIlePheGlySerLeuAlaPheLeuProGluSerPheAspGl
CTGCAAGAAGATCTTTGGGAGCCTGGCATTTCTGCCGGAGAGCTTTGATGG

420 430
oAspSerLeuProAspLeuSerValPheGlnAsnLeuGlnValIleArgGl
GGACAGCCTGCCTGACCTCAGCGTCTTCAGAACCTGCAAGTAATCCGGGG

470 480
aLeuIleHisHisAsnThrHisLeuCysPheValHisThrValProTrpAs
CCTCATCCACCATAACACCCACCTCTGCTTCGTGCACACGGTGCCCTGGGA

520 530
aArgArgAlaLeuLeuGlySerGlyProThrGlnCysValAsnCysSerGl
CCGCAGGGGCACTGCTGGGGTCAGGGCCCACCCAGTGTGTCAACTGCAGCCA

570 580
uCysGlnProGlnAsnGlySerValThrCysPheGlyProGluAlaAspGl
GTGTACAGCCCCAGAATGGCTCAGTGACCTGTGTTTGACCGGAGGCTGACCA

620 630
eProAspGluGluGlyAlaCysGlnProCysProIleAsnCysThrHisSe
TCCAGATGAGGAGGGCGCATGCCAGCCTTGCCCCATCAACTGCACCCACTC

FIG. 16B

CCTCCCAGCCGGGTCCAGCCGGAGCCATGGGGCCGGAGCCGAGTGAGCACC
 40 50
 uArgLeuProAlaSerProGluThrHisLeuAspMetLeuArgHisLeuTyr
 GCGGCTCCCTGCCAGTCCCGAGACCCACCTGGACATGCTCCGCCACCTCTAC
 90 100
 rValLeuIleAlaHisAsnGlnValArgGlnValProLeuGlnArgLeuArg
 CGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCACTGCAGAGGCTGCGG
 140 150
 rProGlyGlyLeuArgGluLeuGlnLeuArgSerLeuThrGluIleLeuLys
 CCCAGGAGGCCTGCGGGAGCTGCAGCTTTCGAAGCCTCACAGAGATCTTGAAA
 190 200
 uIleAspThrAsnArgSerArgAlaCysHisProCysSerProMetCysLys
 GATAGACACCAACCGCTCTCGGGCCTGCGACCCCTGTTCTCCGATGTGTAAG
 240 250
 rAspCysCysHisGluGlnCysAlaAlaGlyCysThrGlyProLysHisSer
 TGACTGCTGCGCATGAGCAGTGTGCTGCCGGCTGCGACGGGCCCCAAGCACTCT
 290 300
 oAsnProGluGlyArgTyrThrPheGlyAlaSerCysValThrAlaCysPro
 CAATCCCGAGGGCCGGTATACATTTCGGCGCCAGCTGTGTGACTGCCTGTCCC
 340 350
 sCysSerLysProCysAlaArgValCysTyrGlyLeuGlyMetGluHisLeu
 GTGCAGCAAGCCCTGTGCCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG
 390 400
 yAspProAlaSerAsnThrAlaProLeuGlnProGluGlnLeuGlnValPhe
 GGACCCAGCCTCCAACACTGCCCCGCTCCAGCCAGAGCAGCTCCAAGTGTTT
 440 450
 yArgIleLeuHisAsnGlyAlaTyrSerLeuThrLeuGlnGlyLeuGlyIle
 ACGAATTCTGCACAATGGCGCCTACTCGCTGACCCTGCAAGGGCTGGGCATC
 490 500
 pGlnLeuPheArgAsnProHisGlnAlaLeuLeuHisThrAlaAsnArgPro
 CCAGCTCTTTCGGAACCCGACCAAGCTCTGCTCCACACTGCCAACCGGCCA
 540 550
 nPheLeuArgGlyGlnGluCysValGluGluCysArgValLeuGlnGlyLeu
 GTTCCTTCGGGGCCAGGAGTGCCTGGAGGAATGCCGAGTACTGCAGGGGCTC
 590 600
 nCysValAlaCysAlaHisTyrLysAspProProPheCysValAlaArgCys
 GTGTGTGGCCTGTGCCCCACTATAAGGACCCTCCCTTCTGCGTGGCCCCGTGC
 640 650
 rCysValAspLeuAspAspLysGlyCysProAlaGluGlnArgAlaSerPro
 CTGTGTGGACCTGGATGACAAGGGCTGCCCGCCGAGCAGAGAGCCAGCCCT



FIG. 16C

660
 2101 LeuThrSerIleValSerAlaValValGlyIleLeuLeuValValVa
 CTGACGTCCATCGTCTCTGCGGTGGTTGGCATTCTGCTGGTCGTGGT
 710
 2251 ThrProSerGlyAlaMetProAsnGlnAlaGlnMetArgIleLeuLy
 ACACCTAGCGGAGCGATGCCCAACCAGGCGCAGATGCGGATCCTGAA
 760
 2401 AlaIleLysValLeuArgGluAsnThrSerProLysAlaAsnLysGl
 GCCATCAAAGTGTTGAGGGAAAACACATCCCCCAAAGCCAACAAAGA
 810
 2551 MetProTyrGlyCysLeuLeuAspHisValArgGluAsnArgGlyAr
 ATGCCCTATGGCTGCTCTTAGACCATGTCCGGGAAAACCGCGGACG
 860
 2701 ValLeuValLysSerProAsnHisValLysIleThrAspPheGlyLe
 GTGCTGGTCAAGAGTCCCAACCATGTCAAATTACAGACTTCGGGCT
 910
 2851 HisGlnSerAspValTrpSerTyrGlyValThrValTrpGluLeuMe
 CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGAT
 1010
 3001 ValTyrMetIleMetValLysCysTrpMetIleAspSerGluCysAr
 GTCTACATGATCATGGTCAAATGTTGGATGATTGACTCTGAATGTTCG
 1060
 3151 AspSerThrPheTyrArgSerLeuLeuGluAspAspAspMetGlyAs
 GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGA
 1110
 3301 SerThrArgSerGlyGlyGlyAspLeuThrLeuGlyLeuGluProSe
 TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTC
 1160
 3451 LeuProThrHisAspProSerProLeuGlnArgTyrSerGluAspPr
 CTCCCACACATGACCCAGCCCTCTACAGCGGTACAGTGAGGACCC
 1210
 3601 SerProArgGluGlyProLeuProAlaAlaArgProAlaGlyAlaTh
 TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCCGACCTGCTGGTGCCAC
 1255
 3751 GlyGlyAlaAlaProGlnProHisProProProAlaPheSerProAl
 GGAGGAGCTGCCCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGC
 1255
 3901 LeuAspValProValEND
 CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTG
 4051 CTAAGGAACCTTCCTTCCTGCTTGAGTCCCAGATGGCTGGAAGGGG
 4201 CCCTTTCCTTCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGC
 4351 ATGGTGTCAGTATCCAGGCTTTGTACAGAGTGCTTTTCTGTTTAGTT
 4501 TTGTCCATTTGCAAATATATTTTGGAAAACAAAAA

FIG. 16D

670 680
 lLeuGlyValValPheGlyIleLeuIleLysArgArgGlnGlnLysIleAr
 CTTGGGGGTGGTCTTTGGGATCCTCATCAAGCGACGGCAGCAGAAGATCCG
 720 730
 sGluThrGluLeuArgLysValLysValLeuGlySerGlyAlaPheGlyTh
 AGAGACGGAGCTGAGGAAGGTGAAGGTGCTTGGATCTGGCGCTTTTGGCAC
 770 780
 uIleLeuAspGluAlaTyrValMetAlaGlyValGlySerProTyrValSe
 AATCTTAGACGAAGCATACTGATGGCTGGTGTGGGCTCCCCATATGTCTC
 830
 gLeuGlySerGlnAspLeuLeuAsnTrpCysMetGlnIleAlaLysGlyMe
 CCTGGGCTCCCAGGACCTGCTGAACTGGTGTATGCAGATTGCCAAGGGGAT
 870 880
 uAlaArgLeuLeuAspIleAspGluThrGluTyrHisAlaAspGlyGlyLy
 GGCTCGGCTGCTGGACATTGACGAGACAGAGTACCATGCAGATGGGGGCAA
 920 930
 tThrPheGlyAlaLysProTyrAspGlyIleProAlaArgGluIleProAs
 GACTTTTGGGGCCAAACCTTACGATGGGATCCCAGCCCGGGAGATCCCTGA
 970 980
 gProArgPheArgGluLeuValSerGluPheSerArgMetAlaArgAspPr
 GCCAAGATTCCGGGAGTTGGTGTCTGAATTCTCCCGCATGGCCAGGGACCC
 1020 1030
 pLeuValAspAlaGluGluTyrLeuValProGlnGlnGlyPhePheCysPr
 CCTGGTGGATGCTGAGGAGTATCTGGTACCCAGCAGGGCTTCTTCTGTCC
 1070 1080
 rGluGluGluAlaProArgSerProLeuAlaProSerGluGlyAlaGlySe
 TGAAGAGGAGGCCCCCAGGTCTCCACTGGCACCCCTCCGAAGGGGCTGGCTC
 1120 1130
 oThrValProLeuProSerGluThrAspGlyTyrValAlaProLeuThrCy
 CACAGTACCCCTGCCCTCTGAGACTGATGGCTACGTTGCCCCCTGACCTG
 1170 1180
 rLeuGluArgAlaLysThrLeuSerProGlyLysAsnGlyValValLysAs
 TCTGGAAAGGGCCAAGACTCTCTCCCAGGGAAGAATGGGGTCGTCAAAGA
 1220 1230
 aPheAspAsnLeuTyrTyrTrpAspGlnAspProProGluArgGlyAlaPr
 CTTGACAACCTCTATTACTGGGACCAGGACCCACCAGAGCGGGGGGCTCC

ATGTGTCCTCAGGGAGCAGGGAAGGCCTGACTTCTGCTGGCATCAAGAGGT
 TCCAGCCTCGTTGGAAGAGGAACAGCACTGGGGAGTCTTTGTGGATTCTGA
 CTGAGAGGGGAAGCGGCCCTAAGGGAGTGTCTAAGAACAAAAGCGACCCAT
 TTTACTTTTTTTGTTTTGTTTTTTTAAAGACGAAATAAAGACCCAGGGGAG

FIG. 16E